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Notice of Allowability	Application No.	Applicant(s)	
	09/826,148	LE DANTEC, CLAUDE	
	Examiner	Art Unit	
	Lawrence B Williams	2634	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 26 November 2004.
2. ☒ The allowed claim(s) is/are 1-34.
3. ☒ The drawings filed on 05 April 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>1</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>1</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Raymond Diperna on 03 February 2005.

The application has been amended as follows:

- a.) In claim 1, line 3, delete the phrase "steps according to which" and replace with the phrase "the steps of:".
- b.) In claim 1, line 4, delete the phrase " a first operation is performed," and replace with the phrase " performing a first operation".
- c.) In claim 1, line 8, delete the phrase " an interleaving operation is performed," and replace with the phrase "performing an interleaving operation".
- d.) In claim 1, line 8, delete the phrase " a second operation is performed," and replace with the phrase "performing a second operation".
- e.) In claim 1, 14, delete the expressions after method and add "and wherein;".
- f.) At the end of claim 1, the expression in parenthesis is not meant to be a permanent part of the claim. Delete this expression.
- g.) In claim 6, line 2, delete the expression "any one of the preceding claims" and replace with the expression "any one of claims 1-3".

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h.) At the end of claim 7, the expression in parenthesis is not meant to be a permanent part of the claim. Delete this expression.

i.) At the end of claim 8, the expression in parenthesis is not meant to be a permanent part of the claim. Delete this expression.

j.) In claim 9, line 7, delete the expression “circular convolutional encoding means proper.” And replace with “circular Convolutional encoding means.”

k.) In claim 10, line, delete the word “proper.”

l.) At the end of claim 10, the expression in parenthesis is not meant to be a permanent part of the claim. Delete this expression.

m.) At the end of claim 14, the expression in parenthesis is not meant to be a permanent part of the claim. Delete this expression.

o.) At the end of claim 16, the expression in parenthesis is not meant to be a permanent part of the claim. Delete this expression.

p.) At the end of claim 18, the expression in parenthesis is not meant to be a permanent part of the claim. Delete this expression.

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The instant application discloses a method and device for encoding a source sequence of symbols. A thorough search of prior art record has failed to disclose a method or device whereby "a first and second operation is performed of dividing into sub-sequences" and encoding; or "first and second means for dividing into sub-sequences" along with the remaining limitations of independent claims 1 and 8.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONCLUSION

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a.) Crozier et al. discloses in US Patent 6,530,059 B1 Tail-Biting Turbo-Code Encoder and Associated Decoder.

b.) Lee et al. discloses in US Patent 6,621,873 B1 Puncturing Device and Method for Turbo Encoder in Mobile Communication System.

c.) Ishikawa discloses in US Patent 6,523,146 B1 Operational Processing Apparatus and Operation Processing Method.

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037.


The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams

lbw
February 3, 2005


AMANDA T. LE
PRIMARY EXAMINER